

ChemRisk/Shonka Research Associates, Inc., Document Request Form

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T. Bennett / 1034A
Requestor Document Center (is requested to provide the following document)

Date of request 9/14/95 Expected receipt of document 10/14/95

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INTER - COMPANY CORRESPONDENCE

COMPANY Carbide and Carbon Chemicals Corporation LOCATION Post Office Box P
Oak Ridge, TennesseeTO Mr. W. G. Piper
LOCATION K-1034DATE June 10, 1949ATTENTION
COPY TOMessrs. R. G. Jordan
W. C. Moore
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ANSWERING LETTER DATE

SUBJECT K-312 Purge CapacityCode Number: KP-66

File

PLANT RECORDS DEPT.
CENTRAL FILES
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In accordance with your request, a study has been made of the purge capacities of buildings K-312-1 and K-312-2, for use in connection with considerations of K-31 design. It was found that an additional 1,200 scfd light contaminant upflow from K-31 could be purged from the cascade by buildings K-312-1 and K-312-2, without starting building K-312-3. No major change in the operation of K-312-1 or K-312-2 would be necessary, although it might prove desirable to move the side purge from its present location in K-305-12 to K-304-5 in order to distribute more equally the amount of work done by the side and top purge buildings. The cascade tops purge would in this case amount to approximately 2,200 scfd, and the side purge to a maximum of 4,500 scfd. It would probably not be necessary or desirable to increase the frequency of the power to K-312 section pumps above the present 35 cycles except to dispose of heavy slugs of light contaminants. The components of the cascade purge as developed in this study are tabulated as follows:

	Light Contaminant Upflow	Total Purge
Present K-25 - K-27 Average	3250 scfd	
Extra capacity to allow for slugs, etc.	1500	4750 scfd
Upflow from K-29	750	5500
Upflow from K-31	1200	6700

This document has been approved for release

to the public by:

[Signature]
 Technical Information Officer
 Oak Ridge K-25 Site

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